CLAIMS

What the invention claimed is:

1. A method in a computing environment for effecting a controlled, recurring assessment of a care episode and service utilization patterns on a county or local level, the method comprising the steps of:

accessing transmissions data received from a plurality of corresponding institutions;

totalizing said proband counts;

transforming the distance values, measured in miles (kilometers) or elapsed time from inception of clinical event to securing appropriate care at a health facility in the catchment area, using a power transform;

transforming the population values for the locale where each care episode originates, measured in persons or persons per square mile (square kilometer);

standardizing, by scaling the raw distance and population values according to the standard deviations and signs of the respective distributions;

weighting the standardized transformed distance and population values and summing to form a provisional index;

standardizing the provisional index, by scaling according to the standard deviation of the provisional index;

iteratively seeking optimal values of power transform exponents λ_1 and λ_2 , such that the Anderson-Darling measure of deviation from normality is minimized and close to zero;

applying the resultant values transform exponents λ_1 and λ_2 , to produce an optimized distance index d for each case;

analyzing the distribution of d values to ascertain an optimal binning into N distance categories, dcat; and

risk-adjusting the incidence rates of clinical indicators of access and utilization of health services using the categorized locally transformed normed distance index, dcat, and age and, optionally, other variables, so as to produce an accurate representation of differences in access to health services taking time and distance into account.